

ABSTRACT OF THE DISCLOSURE

A glass-forming mold comprising an intermediate layer 2 and a platinum layer 3 is provided. The intermediate layer 2 of thickness 3 μm which is formed from an alloy comprising 40 wt% of platinum and 60 wt% of iridium is provided over the surface of a mold substrate 1. This substrate is formed from a cemented carbide material having tungsten carbide as principal constituent. The platinum layer 3 of thickness 0.05 μm is furthermore provided over the intermediate layer 2. By applying the above process, a surface roughness within the range 0.01 μm to 0.05 μm is provided to the mold substrate and a surface roughness within the range 0.2 μm to 1.2 μm is provided to the platinum layer 3 which corresponds to the surface S1 of the most external layer. The surface roughness of the platinum may be achieved by using sputtering to deposit a platinum film and thereafter promoting platinum grain growth by heat treatment at 500° C for 1 hr in a nitrogen atmosphere.

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